Title (en)

Methods and apparatus related to using a wireless terminal scrambling identifier

Title (de)

Verfahren und Vorrichtung im Zusammenhang mit der Verwendung eines Verschlüsselungsidentifikators eines drahtlosen Endgeräts

Title (fr)

Procédés et appareil associés à l'utilisation d'un identifiant de brouillage de terminal sans fil

Publication

EP 2458804 B1 20190814 (EN)

Application

EP 11164554 A 20070413

Priority

- US 79202106 P 20060414
- US 79222306 P 20060414
- US 48660906 A 20060714
- EP 07760663 A 20070413
- US 2007066650 W 20070413

Abstract (en)

[origin: US2007242764A1] User specific modulation-symbol scrambling is implemented for various uplink segments, e.g., uplink traffic acknowledgement channel (ULTACH), uplink state request channel (ULSRCH), and uplink dedicated control channel (ULDCCH) segments. A wireless terminal is assigned a wireless terminal scrambling identifier. A set of ordered input modulation symbols are determined for an uplink dedicated segment to which user specific scrambling is to be applied. One bit of the assigned wireless terminal scrambling identifier is associated with each of the ordered input modulation symbols of a segment in accordance with a predetermined mapping. For each input modulation symbol a scrambling operation, e.g., a phase rotation of the input modulation symbol, is performed as a function of the associated user specific scrambling identifier bit to obtain a corresponding output modulation symbol. A value of (0,1) for a scrambling ID bit is associated with a (first, second) amount of phase rotation, e.g., (0, 180) degrees, respectively.

IPC 8 full level

H04B 1/69 (2011.01); **H04B 1/707** (2011.01); **H04L 5/00** (2006.01); **H04L 5/02** (2006.01); **H04L 27/26** (2006.01)

CPC (source: EP KR US)

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US 2007242764 A1 20071018; **US 8139660 B2 20120320**; AR 061784 A1 20080924; CN 101416549 A 20090422; CN 101416549 B 20120111; CN 101909037 A 20101208; CN 101909037 B 20130327; EP 2014008 A1 20090114; EP 2014008 B1 20160831; EP 2458804 A2 20120530; EP 2458804 A3 20140813; EP 2458804 B1 20190814; JP 2009533981 A 20090917; JP 5306991 B2 20131002; KR 100993149 B1 20101109; KR 20080113105 A 20081226; TW 200810386 A 20080216; WO 2007121366 A1 20071025

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